



# DNREC Virtual Public Hearing

**City of Seaford Wastewater Treatment Facility (WWTF) National Pollutant Discharge Elimination System (NPDES) Permit Renewal**

**Permit No. DE0020265 (State Number WPCC 3161G/74)**

**Docket #2023-P-W-0014**

**Welcome.** Any visual content that is part of this hearing will appear in this window. You can use your computer audio to listen to this hearing. Use the audio connections menu to turn computer audio on or off.

Or you can dial-in to the hearing using the following information:

Dial-In: 1-305-224-1968 Meeting ID: 980 1784 3711 Passcode: 047184

Comments can be offered tonight or by using the DNREC comment form, via email, or by USPS mail as noted on the hearing event page ([de.gov/dnrechearings](https://de.gov/dnrechearings)) through **November 30, 2023**

# Introduction

- City of Seaford applied for reissuance of its NPDES permit No. DE0020265.
- Notice of the application was published May 24, 2023.
- Comment period closed June 23, 2023.
- Received comments and a request for a public hearing on June 22, 2023.
- Hearing provides an opportunity for the public to comment on the reissuance of the NPDES permit.



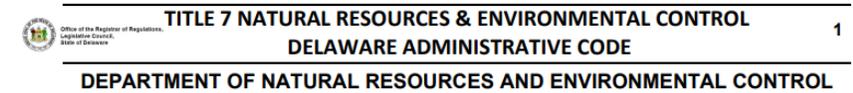
# Facility Description and Location

- Located at 403 Nanticoke Ave., Seaford.
- Facility has a capacity of 2 million gallons per day (MGD). Treats wastewater from Seaford, community of Blades, Bridgeville and Greenwood. Also receives wastewater from industrial users. Maintains a pretreatment program to regulate discharges from industrial users.
- 1 outfall to the Nanticoke River
- Treatment Process
  - Screening and grit removal
  - Primary Clarification
  - Biological nitrogen removal
  - Chemical phosphorus removal
  - Secondary clarification
  - Sand filtration
  - Chlorination and dichlorination
- Sludge disposal – transported to Sussex County’s Inland Bays Regional Wastewater Treatment Facility. Also, maintains Distribution & Marketing permit as a back up option.



# Key Permit Requirements

- Permit includes requirements based on:
  - State Regulations – Title 7 of the Delaware Administrative Code
    - §7201 Regulations Governing the Control of Water Pollution (RGCWP)
    - §7401 Surface Water Quality Standards
    - §7400 Total Maximum Daily Loads (TMDLs) for Nanticoke River
      - ❑ §7430 TMDL for Bacteria
      - ❑ §7406 TMDL for Nutrients
  - Chesapeake Bay TMDL for Nutrients and Sediment
  - Federal Regulations - Title 40 of the Code of Federal Regulations - 40 CFR
- Key permit requirements
  - Effluent limitations and monitoring requirements
  - Requirement to maintain a pretreatment program – EPA implements the program



**Title 40**  
Protection of Environment

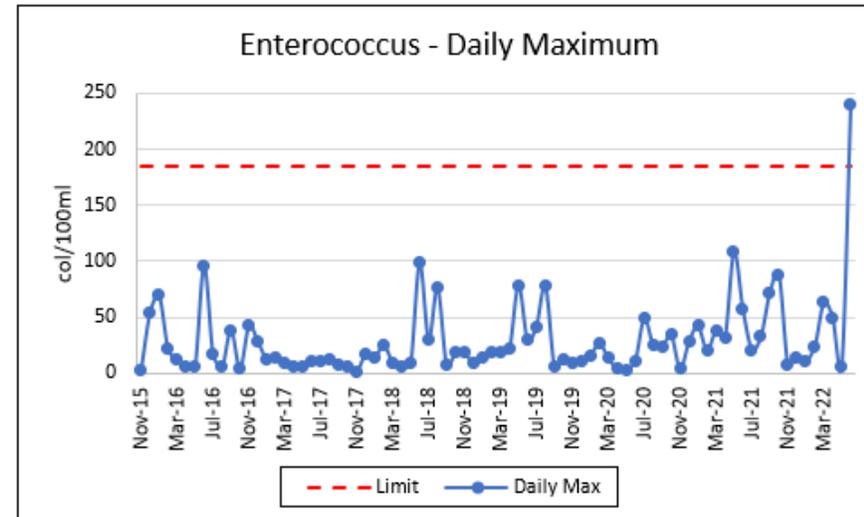
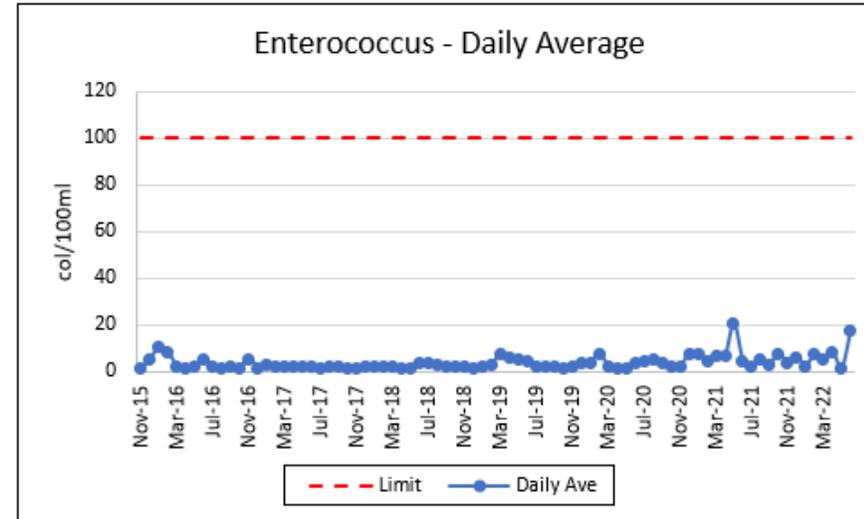
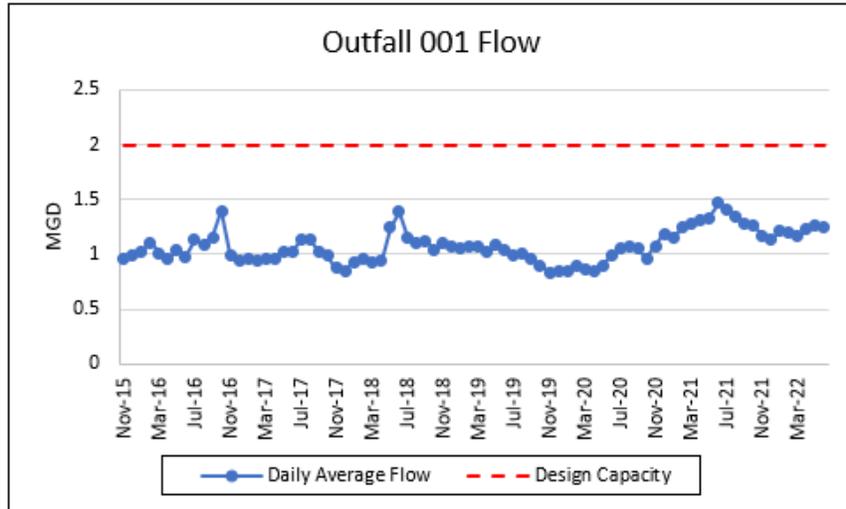


# Discharge Limits and Monitoring Requirements

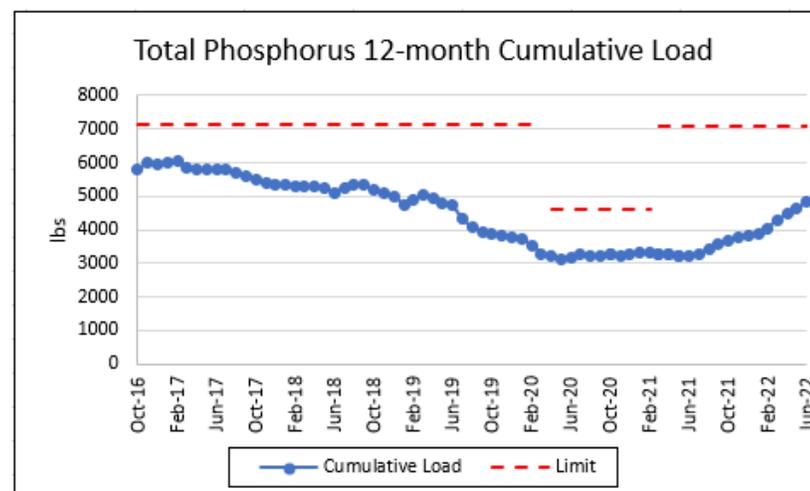
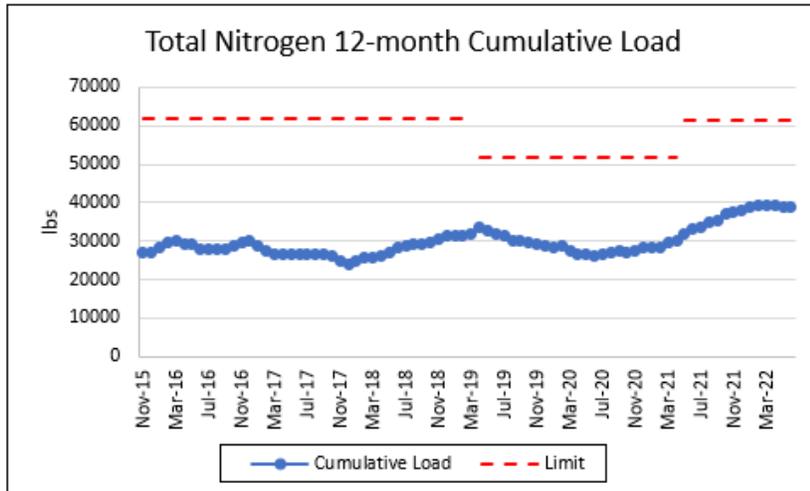
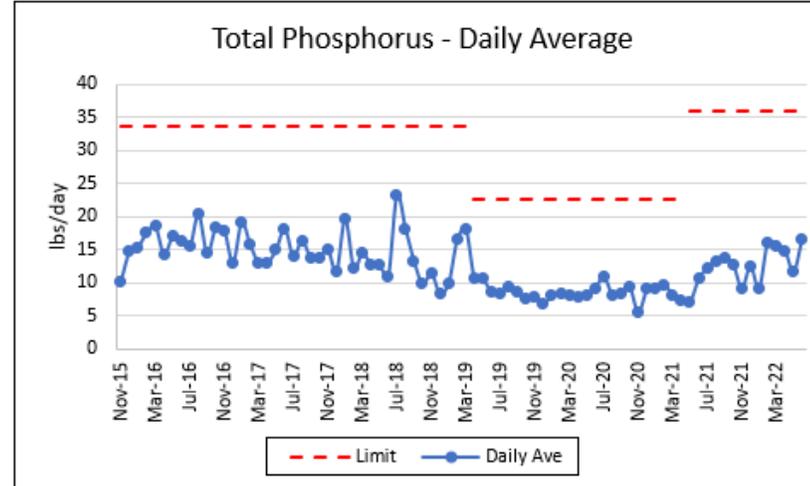
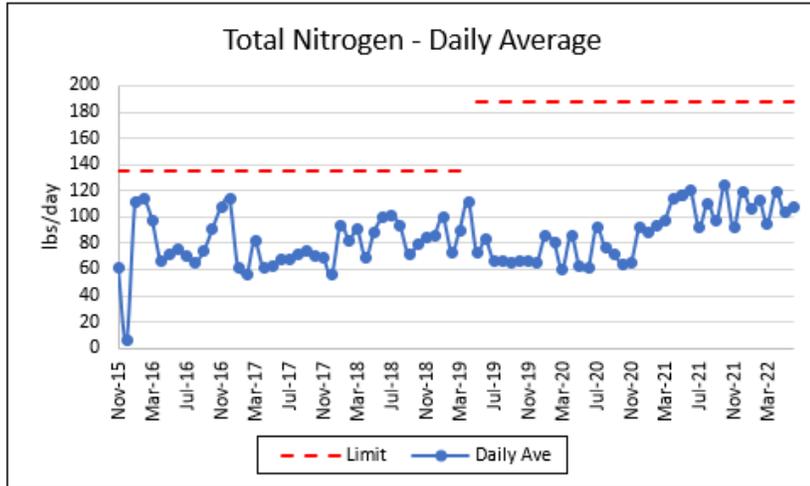
Parameter	Limits/Monitoring	Monitoring Frequency	
Flow	Monitoring	Continuous	
Enterococcus	Limits - Daily Average 100 col/100ml Daily Maximum 185 col/100ml	3 days per week	Nanticoke River TMDL - Bacteria
BOD <sub>5</sub>	Limits - Daily Average 198 lbs/day & 12 mg/l Daily Maximum 297 lbs/day & 18 mg/l	3 days per week	Nanticoke River TMDL - Nutrients
Total Nitrogen	Limits - Daily Average 187.9 lbs/day	Twice per month	
Total Phosphorus	Limits - Daily Average 36 lbs/day	Twice per month	
Total Nitrogen	Limits - Moving 12-month cumulative load 61,541 lbs	Once per month	Chesapeake Bay TMDL
Total Phosphorus	Limits - Moving 12-month cumulative load 7,067	Once per month	
Total Suspended Solids (TSS)	Limits - Daily Average 135 lbs/day & 8 mg/l Daily Maximum 207 lbs/day & 13 mg/l	3 days per week	Technology-Based Requirements
pH	Limits - 6.0 – 9.0 S.U.	Once per day	
Influent BOD <sub>5</sub> and TSS	Monitoring - to demonstrate compliance with ≥92.5% removal	Once per week	
Residual Chlorine	Limit – Non-Detectable	Once per day	Surface Water Quality Standards (for protection of aquatic life and human health)
Hardness	Monitoring - to calculate criteria for metals	Once per month	
Copper	Monitoring	Once per month	
Zinc	Monitoring	Once per quarter	
Biomonitoring (Toxicity test)	Limit	Once per year	
Narrative limit - “discharge shall be free from floating solids, sludge deposits, debris, oil and scum”			



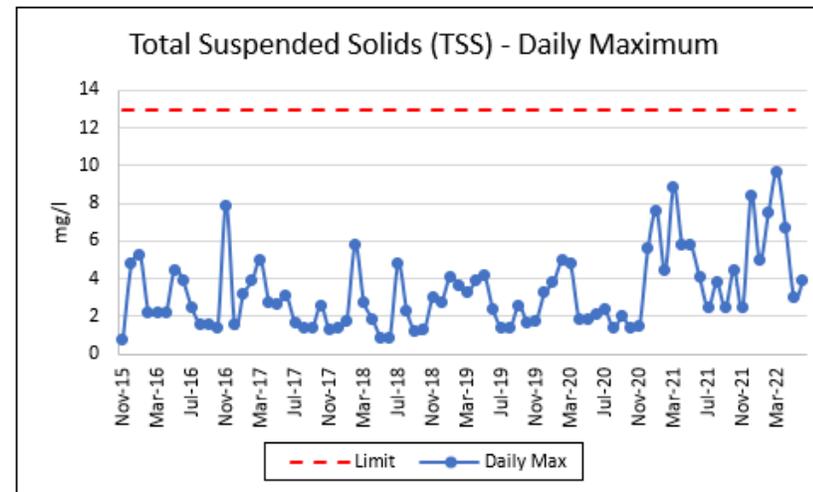
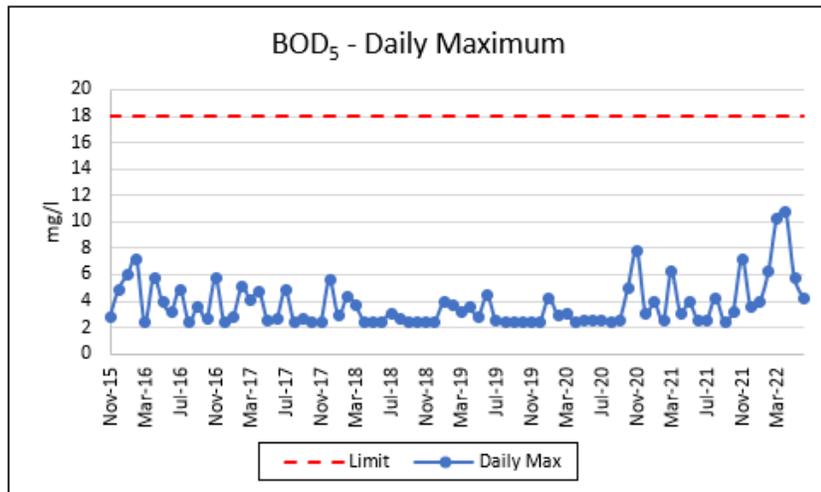
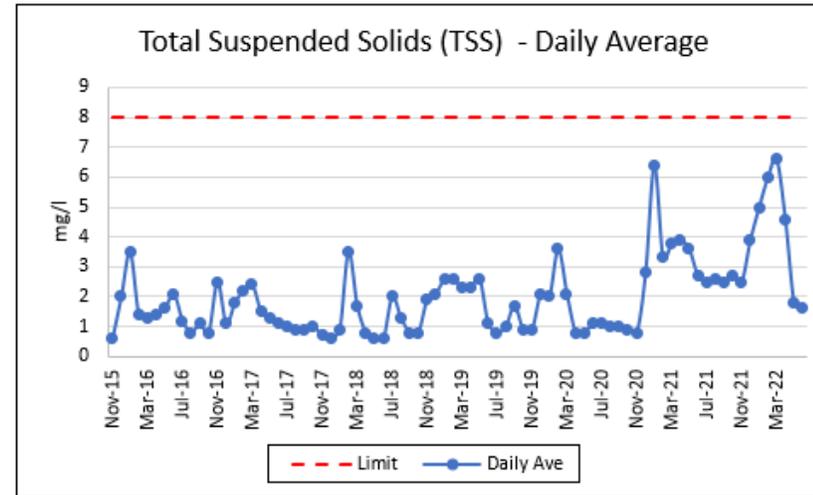
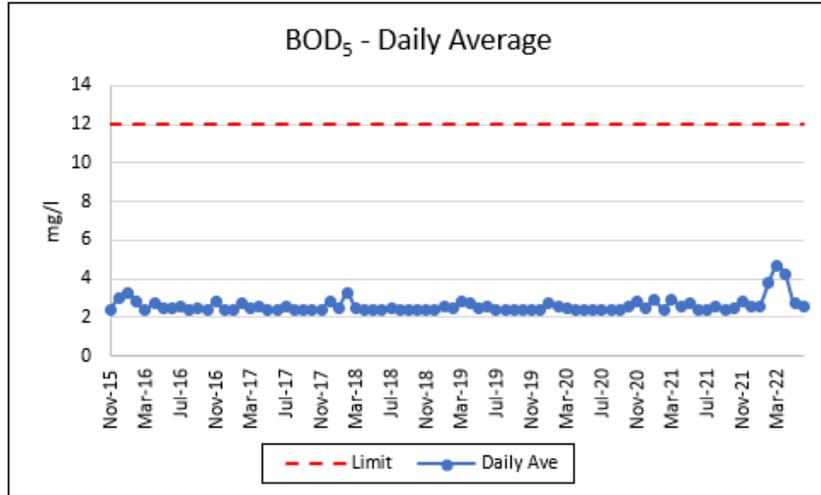
# Facility Performance/Compliance History



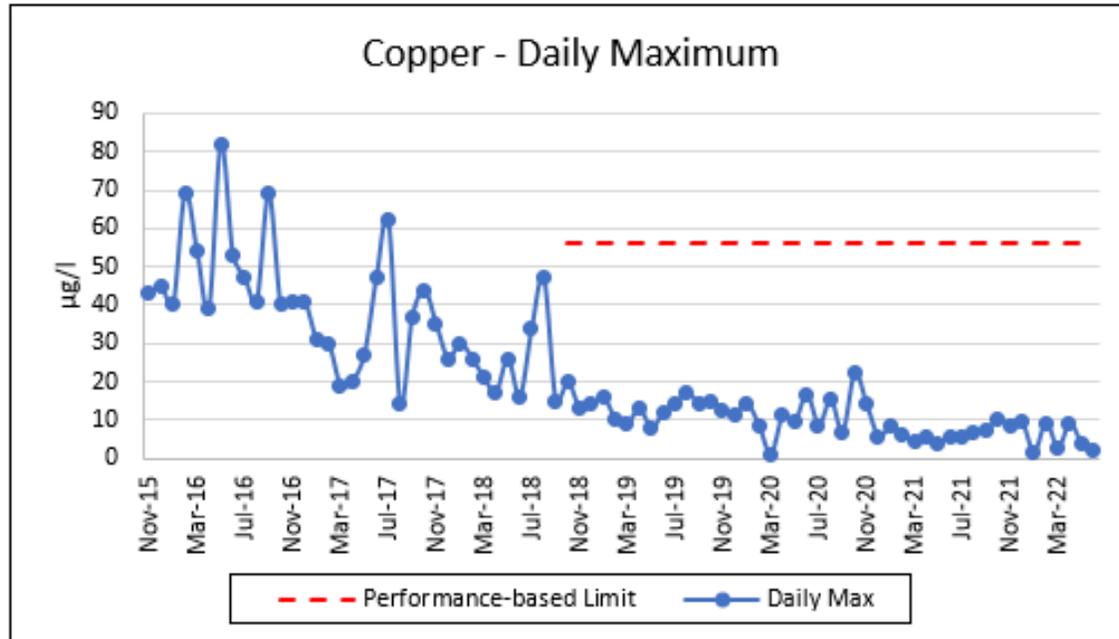
# Facility Performance/Compliance History (cont'd)



# Facility Performance/Compliance History (cont'd)



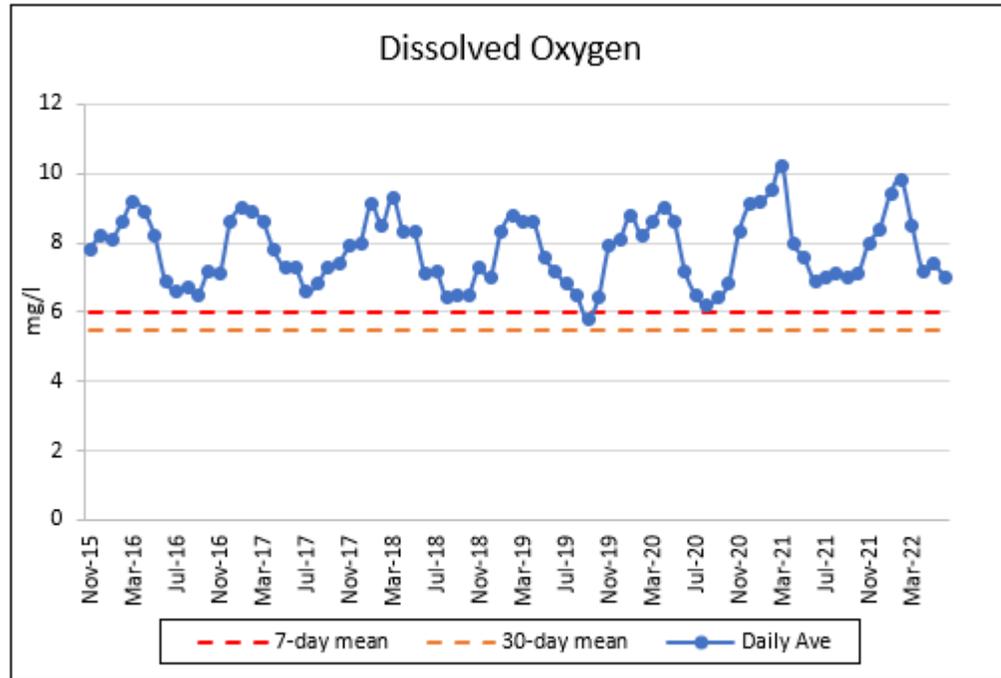
# Facility Performance/Compliance History (cont'd)



- Biomonitoring – test results do not indicate effluent toxicity



# Facility Performance/Compliance History (cont'd)



Effluent DO concentrations compared to the two most stringent **instream** DO criteria (7-day mean shall **not be less** than 6 mg/l for the period **Feb 1 – May 31**” and “30-day mean shall **not be less** than 5.5 mg/l)



# List of Exhibits

1. NPDES Permit Application
2. Draft Permit and Fact Sheet as published on May 24, 2023
3. Hearing Request (June 22, 2023)
4. Notice of the original public hearing date, as published in English and in Spanish on the DNREC website on August 27, 2023. Notice of Cancellation of that date, as published on the website on September 24, 2023. Notice of the new public hearing date, as published in English, Spanish and in Haitian Creole on the DNREC website on October 8, 2023
5. Affidavits of publication of the public hearing notice as published in the Delaware State News and in the Wilmington News Journal on August 27, 2023 for the original hearing date and on October 8, 2023 for the new hearing date.
6. Hearing notice as posted on the State Public Meeting Calendar
7. DNREC presentation in English, Spanish and Haitian Creole
8. EPA presentation in English, Spanish and Haitian Creole





# DNREC Virtual Public Hearing

**City of Seaford Wastewater Treatment Facility National Pollutant Discharge Elimination System (NPDES) Permit Renewal**

**Permit No. DE0020265 (State Number WPCC 3161G/74)**

**Docket #2023-P-W-0014**

**Thank you for Joining us.** We will accept comments on this matter through November 30, 2023.

You can submit your comments using the DNREC comment form via email, or by USPS mail as noted on the hearing event page.

A copy of the Court Reporter's full, verbatim transcript will be posted on this hearing's web page as soon as it becomes available.

For more information, find the event page for this hearing on the DNREC Public Hearings page ([de.gov/dnrechearings](https://de.gov/dnrechearings)).